



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D3391-023
Job Sheet 176070



Part No: D3391-023

Job Qty: 1 ea

Part Name: Mid Tube Assembly



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/16/18

Job Tracking No:

Due Date: 5/24/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV J SHEET 7 IPP A 05.10.20 New Issue KJ/EC IPP B IPP C 07.03.20 rev F dwg EC IPP D 07.03.28 re-format EC IPP E 07.10.31 ecn 1053P EC IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &# sikaflax DD 10.02.17 verified by:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		5/23/18	0.00	0.00	Start Up Skidtubes-1		J.Y.
100	Skidtubes	1 pcs		5/23/18	0.88	2.11	Skidtubes-4		J.Y. DAS
110	QC	1 pcs		5/23/18	0.00	0.00	QC5		38
120	HandFinish	1 pcs		5/23/18	0.00	0.38	HandFinish1		BEB 18-05-01
130	QC	1 pcs		5/23/18	0.00	0.00	QC7-2		TIN
140	Skidtubes	1 pcs		5/23/18	0.00	2.11	Skidtubes-4		J.Y.
150	QC	1 pcs		5/23/18	0.00	0.00	QC5		BE
160	Skidtubes	1 pcs		5/23/18	0.00	2.11	Skidtubes-4		BE-Dmbl
170	QC	1 pcs		5/23/18	0.00	0.00	QC10		38 DAS
180	QC	1 pcs		5/23/18	0.00	0.00	QC5		9-80 38
185	HandFinish	1 pcs		5/23/18	0.00	0.38	HandFinish2		BEB 18-05-02
191	SprayPaint	1 pcs		5/23/18	0.00	0.91	Spray Paint		N/A
192	Outsource	1 pcs		5/23/18			ATE003-VC	PO:037865	AT 18/05/14
193	Packaging	1 pcs		5/23/18	0.00	0.00	Packaging2		AT 18/05/11
200	QC	1 pcs		5/23/18	0.00	0.00	QC14		AL 18-5-14
230	HandFinish	1 pcs		5/24/18	0.00	0.38	HandFinish4		DAS
240	QC	1 pcs		5/24/18	0.00	0.00	QC5		38
250	Packaging	1 pcs		5/24/18	0.00	0.00	Packaging3-1		9-80 38
260	QC21-SA	1 Ea		5/24/18	0.00	0.00	QC21		21 38 MAY 16 2018

Part Op 100 - 1-Cut tube to finish length as per Dwg D3391 2-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1
Descriptions: fwd saddle hole on one side only as per Dwg D3391 3-Open aft saddles and GHW holes to Ø0.4375" except for fwd saddle
holes 4-Remove .030" from Fwd indexing Ridge as per Dwg D3391 5-Remove indexing ridge on Fwd & Aft end of
skidtube as per Dwg D3391 6-Deburr, scribe batch # on aft end. 7- Locate D3391-021 in D3391-023 at 9.00" (see view
F-F) 8- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149
locating from previously drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previously transfer
drilled pilot holes in D3391-023/-021 using drill press. ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to
0.500" as per ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". D3391-021
BATCH: 9- Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.375" holes with paint marker,
DO NOT DRILL HOLES #3-19-20 FROM FWD END OF JIG Locating from two fwd wearplate holes in D3391-023
drill remaining 6 wearplate holes in D3391-021 using DT8937 10- Open wearplate holes of D3391-023 assembly detail
section Q-Q to Ø0.375" (10 holes) as per Dwg D3391 Open wearplate holes of D3391-023 assembly detail section H-H to
Ø0.297" (20 holes) as per Dwg D3391 Deburr and blow out all chips from inside tube, scribe

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WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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140 - 1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg 3- Prepare tube for welding 4-Bond web in place as per Dwg D3391 & QSI 015. Adhere for 12 hours) A/R Sikaflex exp: Dec 2018 batch#: KB8707
 NOTE:ENSURE WEB IS INSERTED IN AFT END OF TUBE
 160 - 1-Weld crossbolt spacer as per dwg D3391 & QSI 004 2-grind weld flush AK ~~76157~~ 038011
 185 - Re-alodine
 191 - PRIME AS PER DWG AND QSI005 4.2.1.3.3 PRIMER BATCH: _____ PAINT AS PER DWG AND QSI005 4.2.2.4 PAINT: _____
 230 - 1-Install Inserts as per Dwg

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2500-1-100	Skidtube Extrusion	1 Ea (1 ea)	90-Start up Operation	<u>FL63853</u>
D3389-1	Web	1 Ea (1 ea)	140-Skidtubes	<u>5059800</u>
D3681-1	Spacer	5 Ea (5 ea)	160-Skidtubes	<u>5022530</u>
ALS4-1032-130	Rivnut	20 Ea (20 ea)	230-HandFinish	<u>5008959</u>
D3591-1	Bushing	2 Ea (2 ea)	230-HandFinish	<u>5026944</u>
				<u>003183</u>

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D2500-1-100	1	59	0
140-Skidtubes	D3389-1	1	2	0
160-Skidtubes	D3681-1	5	248	0
230-HandFinish	ALS4-1032-130	20	14,777	0
	D3591-1	2	55	0

Part Specifications



Container No: S065275



Part: D3391 - 023

Job No: 176070

Serial No/Batch: S065275

Revision: J

Inspector:

Dart Aerospace Ltd.
 1270 Aberdeen Street
 Hawkesbury, ON K64 1K7
 CANADA
 TEL.: 1 813 632-5200
 Email: sales@dartaero.com
 www.dartaerospace.com

PM Dart.lajeunesse.marie

Date: 04/25/18

DQA: _____ Date: _____

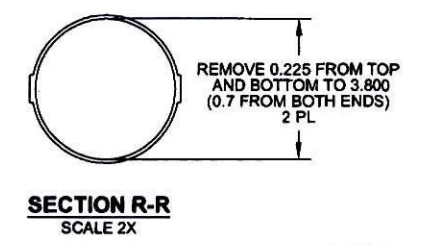
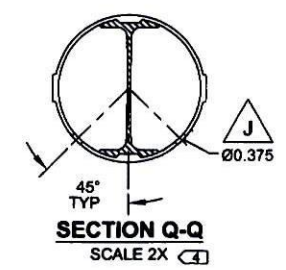
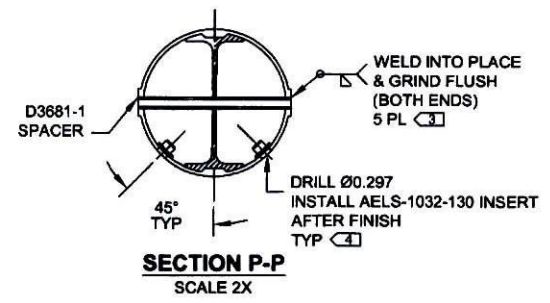
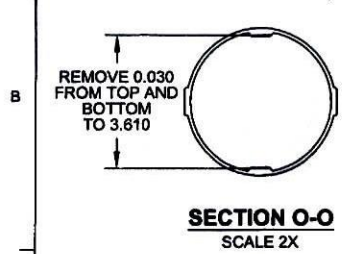
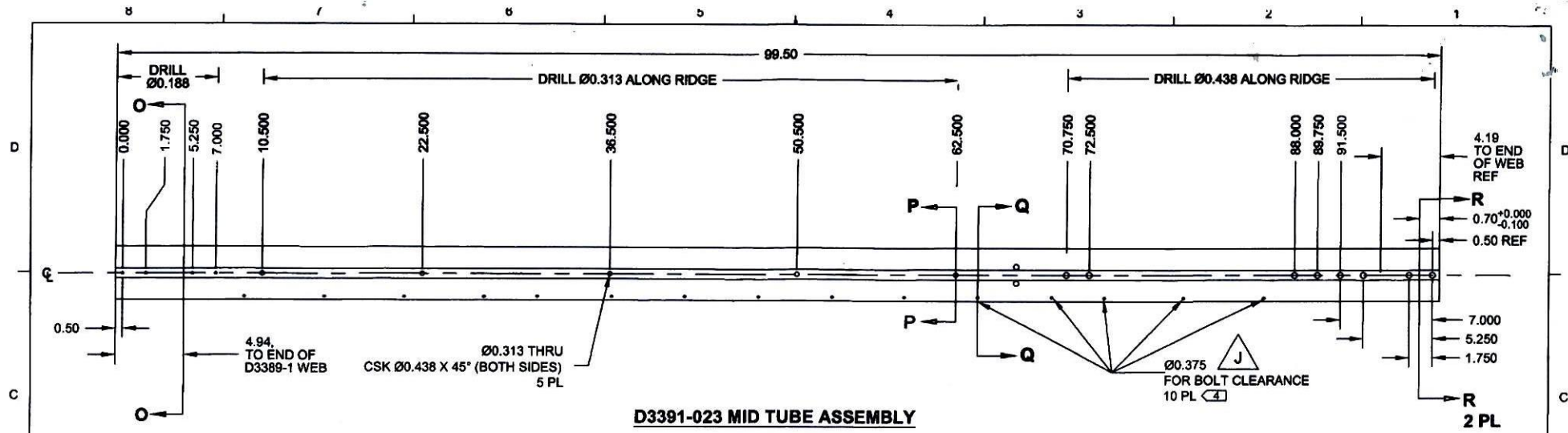


WORK ORDER NON-CONFORMANCE / UPDATE

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Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
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OTHER : _____					



D3391-023 MID TUBE ASSEMBLY PARTS LIST

QTY	PART NUMBER	DESCRIPTION
-023		
X	D3391-023	MID TUBE ASSEMBLY
1	D2500-1-100	EXTRUSION
1	D3389-1	WEB
5	D3681-1	SPACER
20	AELS-1032-130	INSERT



D3391-023 MID TUBE ASSEMBLY

- 1) MATERIAL: MAKE FROM D2500-1-100
- 2) INSTALL D3389-1 WEB TO OUTER TUBE USING SIKAFLEX-241/-291 PER QSI 015
- 3) WELDING: PER DART QSI 004
- 4) USE DART DRILL TEMPLATE DT8217 TO LOCATE AND DRILL Ø0.297 AND Ø0.375 HOLES FOR WEARSHOE INSERTS AND NUTPLATES. CBORE AS NOTED AND INSTALL INSERT/NUTPLATES EXCEPT WHERE INDICATED.

DESIGN	PH	DART AEROSPACE USA, INC	
DRAWN	ML	EUGENE, OR	
CHECKED	CP	DRAWING NO.	REV. J
MFG. APPR.	<i>Bo</i>	D3391	SHEET 7 OF 11
APPROVED	<i>Bo</i>	TITLE	SCALE
DE APPR.	<i>Bo</i>	412 FLOAT SKIDTUBE	NTS
DATE	16.01.14	COPYRIGHT © 2005 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

RELEASED
2016-04-28

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Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039865**

Supplier: ATE003-VC
Atelier Debosselage
358 Principale
Calumet
QC
J0V 1B0 Canada
Phone: 819 242 5633

PO No: PO039865

PO Date: 5/10/18

Due Date: 5/11/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
MAY 10 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	176068	D3391-023	Mid Tube Assembly	Firmed	5/11/18	1 pcs	0 pcs	1 pcs	\$125.00/pcs	\$125.00
	176070			Firmed	5/11/18	1 pcs	0 pcs	1 pcs	\$125.00/pcs	\$125.00
Sub Total:						2	0	2		\$250.00
2	174842	D350-636-011	Skidtube LH, Std Wearplates, DART (Apical) Cylindrical/Aerazur Float Comp.	Firmed	5/11/18	1 pcs	0 pcs	1 pcs	\$225.00/pcs	\$225.00
	175050			Firmed	5/11/18	1 pcs	0 pcs	1 pcs	\$225.00/pcs	\$225.00
Sub Total:						2	0	2		\$450.00
3	175053	D350-636-012	Skidtube RH, Std Wearplates, DART (Apical) Cylindrical/Aerazur Float Comp.	Firmed	5/11/18	1 pcs	0 pcs	1 pcs	\$250.00/pcs	\$250.00
Grand Total:										\$950.00

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/10/18 2:51 PM dart.lavoie.chantal